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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 62063(51588) U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/585726
INTERNATIONAL APPLICATION NO. PCT/US04/21725	INTERNATIONAL FILING DATE 7 July 2004	PRIORITY DATE CLAIMED 7 July 2003
TITLE OF INVENTION FUGETACTIC PROTEINS, COMPOSITIONS AND METHODS OF USE		
APPLICANT(S) FOR DO/EO/US Mark C. Poznansky et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An unexecuted oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

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U.S. APPLICATION NO. (if known, see 37 CFR 1.51) 104563726 60485550	INTERNATIONAL APPLICATION NO. PCT/US04/21725	ATTORNEY'S DOCKET NUMBER 62063(51588)												
20. <input checked="" type="checkbox"/> Other items or information: Return Receipt Postcard														
The following fees have been submitted														
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300	CALCULATIONS \$ 300.00	PTO USE ONLY												
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations \$200	\$ 200.00													
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500	\$ 500.00													
TOTAL OF 21, 22 and 23 =	\$ 1,000.00													
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Total Sheets</th> <th style="width: 15%;">Extra Sheets</th> <th style="width: 35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width: 35%;">RATE</th> </tr> <tr> <td>171 - 100 =</td> <td>71 /50 =</td> <td style="text-align: center;">2</td> <td style="text-align: center;">x \$250.00</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	171 - 100 =	71 /50 =	2	x \$250.00	\$ 500.00					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE											
171 - 100 =	71 /50 =	2	x \$250.00											
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 40%;">RATE</th> </tr> <tr> <td>Total claims</td> <td style="text-align: center;">124 - 20 =</td> <td style="text-align: center;">104</td> <td style="text-align: center;">x 50.00</td> </tr> <tr> <td>Independent claims</td> <td style="text-align: center;">7 - 3 =</td> <td style="text-align: center;">4</td> <td style="text-align: center;">x 200.00</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	124 - 20 =	104	x 50.00	Independent claims	7 - 3 =	4	x 200.00	5,200.00 800.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE											
Total claims	124 - 20 =	104	x 50.00											
Independent claims	7 - 3 =	4	x 200.00											
MULTIPLE DEPENDENT CLAIM(S) (if applicable)														
TOTAL OF ABOVE CALCULATIONS =														
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.														
SUBTOTAL =														
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).														
TOTAL NATIONAL FEE =														
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property														
TOTAL FEES ENCLOSED =														
		Amount to be refunded: \$												
		Amount to be charged \$												

10/563726

PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 04-1105 in the amount of \$ 3,750.00 to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1105. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO -2038

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Amy Leahy
EDWARDS ANGELL PALMER & DODGE LLP
P.O. Box 55874
Boston, Massachusetts 02205
(203) 975-7505

CUSTOMER NUMBER: 21874


SIGNATURE

Marina Heusch
NAME

47,647
REGISTRATION NUMBER

10/563726

IAP20 Rec'd PCT/PTO 06 JAN 2006

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 62063(51588)

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV749289600US in an envelope addressed to:

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Denise Kacinski

Signature

Denise Kacinski

Typed or printed name of person signing Certificate

Registration Number, if applicable

(203) 975-7505
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Fee Transmittal (3 pages)
Copy of the International application
Amendments to the claims of the International application
Oath or declaration of the inventor(s)
Preliminary Amendment
Transmittal Letter to the United States Designated-Elected Office
Charge \$3,750.00 to deposit account 04-1105

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). FEE TRANSMITTAL For FY 2005		Complete if Known Application Number 62063(51588) Filing Date Concurrently Herewith First Named Inventor Mark C. Poznansky Examiner Name Not Yet Assigned Art Unit N/A Attorney Docket No. 62063(51588)	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27			
TOTAL AMOUNT OF PAYMENT (\$) 3,750.00			

METHOD OF PAYMENT (check all that apply)	
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____	
<input checked="" type="checkbox"/> Deposit Account Deposit Account Number: 04-1105 Deposit Account Name: Edwards Angell Palmer & Dodge LLP	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

FEE CALCULATION																					
1. BASIC FILING, SEARCH, AND EXAMINATION FEES																					
	FILING FEES		SEARCH FEES		EXAMINATION FEES																
		Small Entity		Small Entity		Small Entity															
Application Type	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fees Paid (\$)														
Utility	300	150	500	250	200	100															
Design	200	100	100	50	130	65															
Plant	200	100	300	150	160	80															
Reissue	300	150	500	250	600	300															
Provisional	200	100	0	0	0	0															
2. EXCESS CLAIM FEES																					
							Small Entity														
Fee Description							Fee (\$)														
Each claim over 20 (including Reissues)							50														
Each independent claim over 3 (including Reissues)							200														
Multiple dependent claims							360														
							180														
<table border="0"> <tr> <td>Total Claims</td> <td>Extra Claims</td> <td>Fee (\$)</td> <td>Fee Paid (\$)</td> <td>Multiple Dependent Claims</td> <td>Fee (\$)</td> <td>Fee Paid (\$)</td> </tr> <tr> <td>124</td> <td>- 20 = 104</td> <td>x 25 =</td> <td>2,600.00</td> <td></td> <td></td> <td></td> </tr> </table>							Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)	124	- 20 = 104	x 25 =	2,600.00				
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124	- 20 = 104	x 25 =	2,600.00																		
<table border="0"> <tr> <td>Indep. Claims</td> <td>Extra Claims</td> <td>Fee (\$)</td> <td>Fee Paid (\$)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>- 3 = 4</td> <td>x 100 =</td> <td>400.00</td> <td></td> <td></td> <td></td> </tr> </table>							Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)				7	- 3 = 4	x 100 =	400.00				
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)																		
7	- 3 = 4	x 100 =	400.00																		
3. APPLICATION SIZE FEE																					
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).																					
<table border="0"> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof</td> <td>Fee (\$)</td> <td>Fee Paid (\$)</td> </tr> <tr> <td>171</td> <td>- 100 = 71</td> <td>/50 = 2 (round up to a whole number) x</td> <td>125 =</td> <td>250.00</td> </tr> </table>								Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)	171	- 100 = 71	/50 = 2 (round up to a whole number) x	125 =	250.00				
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171	- 100 = 71	/50 = 2 (round up to a whole number) x	125 =	250.00																	
4. OTHER FEE(S)																					
Fees Paid (\$)																					
Non-English Specification, \$130 fee (no small entity discount)																					
Other (e.g., late filing surcharge):																					
2631 Basic National Stage fee 150.00																					
2633 National Stage Examination Fee - all other ... 100.00																					
2632 National Stage Search Fee - all other situations 250.00																					
2681 National Stage application size fee - for each ... 250.00																					
2615 National Stage claims - extra total (over twenty) 2,600.00																					
2614 National Stage claims - extra independent (over ... 400.00																					

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent) 47,647	Telephone (203) 975-7505
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV749289600US, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below. Dated: January 6, 2006 Signature: <i>Denise Kacinski</i> (Denise Kacinski)			